

What is claimed is;

1. An electronic camera, comprising:
  - an image-capturing device that captures an image of a subject and generates image data;
  - 5 a first bus to which the image data generated by said image-capturing device are output;
  - an image memory that is connected to said first bus and temporarily stores the image data on said first bus;
  - 10 a plurality of image data conversion devices connected to said first bus that individually convert the image data on said first bus;
  - a second bus through which conversion outputs from said plurality of image data conversion devices are provided to individual output destinations; and
  - 15 an adjustment device that performs timing adjustment or multiplexing of a plurality of conversion outputs to ensure that the plurality of conversion outputs do not collide on said second bus.
- 20 2. An electronic camera according to claim 1, wherein:
  - said plurality of image data conversion devices are an image processing device that performs two-dimensional image processing on the image data, a compression conversion device that compresses the image data and a size conversion device that converts the image plane size of the image data.

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3. An electronic camera according to claim 1, wherein:  
at least one of said plurality of image data conversion  
devices has an output destination setting device that sets  
5 said first bus and/or said second bus as an output  
destination for a conversion output.
4. An electronic camera according to claim 1, wherein:  
a transmission device that directly transmits a  
10 conversion output without engaging said first bus or said  
second bus is provided among, at least, a pair of said  
plurality of image data conversion devices.
5. An electronic camera comprising:  
15 an image-capturing device that captures an image of a  
subject and generates image data;  
an image-capturing preparation device that executes  
preparation for image-capturing to be performed by said  
image-capturing device, the preparation being at least one  
20 of focus control, photometry and white balance detection;  
and  
a recording device that records the image data  
generated by said image-capturing device in a removable  
memory, wherein:  
25 processing time during an image-capturing preparation

stage in said electronic camera is reduced by implementing in parallel the preparation for image-capturing executed by said image-capturing preparation device and an operation to check said removable memory performed by said recording  
5 device.

6. An electronic camera comprising:

an image-capturing device that captures an image of a subject and generates image data;

10 an image-capturing preparation device that executes preparation for image-capturing to be performed by said image-capturing device, the preparation being at least one of focus control, photometering and white balance detection; and

15 a recording device that records the image data generated by said image-capturing device in a removable memory, wherein:

processing time during an image-capturing stage in said electronic camera is reduced by implementing in parallel at  
20 least two of an operation to finalize the preparation for image-capturing by said image-capturing preparation device, an operation to activate said image-capturing device and an operation to activate said recording device, the operation to finalize the preparation being at least one of AF lock,  
25 an operation to hold exposure calculation results and an

operation to hold white balance calculation results.

7. An electronic camera comprising:

an image-capturing device that captures an image of a

5 subject and generates image data; and

a recording device that records the image data

generated by said image-capturing device in combination with  
photographic information, which is at least one type of  
information related to photographing such as a photographing

10 date, in a removable memory, wherein:

during an image-capturing stage in said electronic  
camera, processing time elapsing from image-capturing  
through recording is reduced by implementing in parallel an  
image-capturing operation by said image-capturing device and  
15 an editing operation of the photographic information  
performed by said recording device.

8. An electronic camera comprising:

an image-capturing device that captures an image of a

20 subject and generates image data;

a recording device that records the image data  
generated by said image-capturing device in a removable  
memory, wherein:

during an image-capturing stage in said electronic

25 camera, processing time elapsing from image-capturing

through recording is reduced by implementing in parallel an image-capturing operation by said image-capturing device and a preparing operation for data recording in said removable memory performed by said recording device.

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9. An electronic camera comprising:

an image-capturing device that captures an image of a subject and generates image data; and

an image processing device that performs two-

10 dimensional image processing on the image data generated by said image-capturing device, wherein:

processing time during an image-capturing stage in said electronic camera is reduced by implementing in parallel a scanning read of the image data from said image-capturing device and the two-dimensional image processing performed by said image processing device.

10. An electronic camera comprising:

an image-capturing device that captures an image of a

20 subject and generates image data;

an image processing device that performs two-

dimensional image processing on the image data generated by said image-capturing device; and

a compression conversion device that performs image

25 compression on the image data having undergone two-

dimensional image processing at said image processing device,  
wherein:

processing time during an image-capturing stage in said  
electronic camera is reduced by implementing in parallel the  
5 two-dimensional image processing performed by said image  
processing device and the image compression by said  
compression conversion device.

11. An electronic camera comprising:

10 an image-capturing device that captures an image of a  
subject and generates image data;

an image processing device that performs two-  
dimensional image processing on the image data generated by  
said image-capturing device; and

15 a size conversion device that converts an image plane  
size of image data having undergone two-dimensional image  
processing at said image processing device, wherein:

processing time during an image-capturing stage in said  
electronic camera is reduced by implementing in parallel the  
20 two-dimensional image processing performed by said image  
processing device and an image plane size conversion by said  
size conversion device.

12. An electronic camera according to claim 11, further  
25 comprising:

a thumbnail compression device that performs image compression processing on the image data having undergone image plane size conversion performed by said size conversion device, wherein:

5       processing time during an image-capturing stage in said electronic camera is reduced by implementing in parallel the image plane size conversion performed by said size conversion device and the image compression processing performed by said thumbnail compression device.

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13. An electronic camera comprising:

      an image-capturing device that captures an image of a subject and generates image data;

15       a compression conversion device that performs image compression on the image data generated by said image-capturing device; and

      a recording device that records compressed data resulting from compression performed by said compression conversion device in a removable memory, wherein:

20       during an image-capturing stage in said electronic camera, processing time elapsing from image-capturing through recording is reduced by implementing in parallel the image compression performed by said compression conversion device and recording of the compressed data by said recording device.

14. An electronic camera comprising:  
an image-capturing device that captures an image of a  
subject and generates image data;
- 5       a recording device that records the image data  
resulting from image-capturing by said image-capturing  
device in a removable memory;
- a reproduction device that reads out the image data  
from said removable memory; and
- 10      an information management device that saves and  
retrieves management information necessary in an operation  
to reproduce the image data from said removable memory in  
response to a power off and on, wherein:  
          processing time during a reproduction preparation stage  
15     is reduced by implementing in parallel an operation to  
activate said removable memory performed by said  
reproduction device and retrieving of the management  
information by said information management device.
- 20    15. An electronic camera comprising:  
an image-capturing device that captures an image of a  
subject and generates image data;  
a compression conversion device that performs image  
compression on the image data resulting from image-capturing  
25    by said image-capturing device;

a recording device that records compressed data resulting from the image compression by said compression conversion device in a removable memory;

5 a reproduction device that reads out the compressed data from said removable memory; and

a decompression conversion device that performs image decompression on the compressed data read out from said removable memory, wherein:

10 processing time during an image reproduction stage in said electronic camera is reduced by implementing in parallel a read of the compressed data from said removable memory performed by said reproduction device and decompression conversion of compressed data performed by said decompression conversion device.

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16. An electronic camera according to claim 15, further comprising:

20 a size conversion device that converts an image plane size of the image data having undergone the decompression conversion performed by said decompression conversion device to an image plane size for monitor display wherein:

25 processing time during an image reproduction stage in said electronic camera is reduced by implementing in parallel the decompression conversion of the compressed data performed by said decompression conversion device and image

plane size conversion performed by said size conversion device.

17. An electronic camera comprising:

5       an image-capturing device that captures an image of a subject and generates image data;

          a recording device that records the image data resulting from image-capturing by said image-capturing device in a removable memory;

10      a reproduction device that reads out the image data from said removable memory; and

          a size conversion device that converts an image plane size of the image data read out by said reproduction device to an image plane size for monitor display, wherein:

15      processing time during an image reproduction stage in said electronic camera is reduced by implementing in parallel a read of the image data from said removable memory performed by said reproduction device and the image plane size conversion performed by said size conversion device.

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18. An electronic camera according to claim 1, wherein:

          at least one of said plurality of image data conversion devices has an input source setting device that sets said first bus and/or said second bus as an input 25 source of image data.